IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Application of:	)	RETRACTABLE SENSOR
	)	FOR AN ALARM SYSTEM
ROGER J. LEYDEN ET AL.	)	
	)	
Ser. No.: 08/807,120	)	Art Unit: 2617
(U.S. Pat. 5,552,771, issued 9/3/96)	)	
	)	
Filed: 2/19/97	)	Examiner: A. Wong

DECLARATION OF PETER J. PASSUNTINO

I, Peter J. Passuntino declare that:

1.   I am currently employed by Se-Kure Controls, Inc. (Se-Kure), the applicant in the above-identified matter. I have been employed by Se-Kure for 14 years and currently hold the title of Vice President of Operations.

2.   As part of my duties and responsibilities as Vice President of Operations, and in other positions I have held at Se-Kure since at least the mid 1980's, I communicate directly with customers and potential customers of Se-Kure to identify these customers' needs and to attempt to provide products to meet those needs.

3.   In the process of performing my duties at Se-Kure, I have become aware of needs and problems associated with displaying of retail goods, including a wide range of electronic items.

4.   It has long been a practice to display expensive consumer products, such as electronics, at point-of-purchase in closed and lockable cabinets. While this type of display is

generally effective from a security standpoint, it has a number of drawbacks. First of all, a prospective consumer is precluded from handling any item within the closed case until access is permitted by the store owner or attendant. Also, an individual or individuals must be on hand and available to prospective customers to permit access to these displays.

5.   In approximately the mid 80's time range, a noticeable trend towards the open display of electronics started. With open displays, products are situated so that they can be picked up and operated by a potential customer. While open displays are highly effective from a marketing standpoint, they introduce security problems. In the absence of some type of security system, objects on open displays are the ready targets of thieves.

6.   Because of the obvious theft problem, various systems have been devised to minimize theft losses in open displays. As evidenced by the attached, current brochure (Attachment 1), Se-Kure's business is focused largely on security systems for open displays. Se-Kure designs most of its products in-house and currently has 5 individuals responsible for research and development in this product area. This research and development focuses in large part on making systems that are as unobtrusive as possible, yet which afford reliable security for articles that are often in high price ranges.

7.   Tether-type security systems have been used on open displays for many years to allow prospective customers to pick up and manipulate the tethered product within a range dictated by the length of the tether. These tethers are generally of two different types: mechanical (see systems on pages 12 and 14 of Attachment 1 and pages 6 and 7 of an earlier brochure - Attachment 2) and electrical (see system on page 5 of Attachment 1 and pages 3-5 of Attachment 2).

8.   Mechanical tethers were used at least as early as the early 1980's. A typical mechanical tether consists of a cable which is fixed to a support and an object to be protected. The

2

pure mechanical tether is prone to being defeated. The cable ends can either be removed or the cable cut intermediate its ends without any indication thereof to the store operator.

9.   Electrical systems are generally much more reliable for theft control. In a typical electrical system, a conductive cable is extended between an object and an alarm generator. The cable is connected to the object through a sensor. Removal of the sensor or interruption of the conductive path, as by cutting of the cable, triggers an audible and/or visual alarm to alert the store operator that there has been a breach of security.

10.   The use of tethers on displays of consumer articles introduces a problem of "wire management". Wire management involves control of both mechanical and electrical tethers so that the tethers from adjacent products do not interfere with each other, and so that the appearance of the tethers does not detract significantly from the aesthetics of a display.

11.   Displays of electronic equipment, in larger retail establishments, commonly include a large number of products. An exemplary camera display. as used in Wal-Mart in early 1995, is shown on page 1 of Attachment 3.   This display was designed so that each camera could be individually picked up and held for simulated operation thereof. To allow this, several feet of tether wire was provided for each camera.

12.   In the absence of some form of wire management, the various tethers in a display like that shown in Attachment 3 could become unmanageable. The tethers from adjacent cameras could potentially become entangled so that one or more of the cameras might not be repositionable as intended. Further, if several feet of tether were allowed to be laid upon the exposed surface of the display, the tethers could become unsightly.

13.   I was in communication with representatives from Wal-Mart, at the time of the design of the display shown on page 1 of Attachment 3, in early 1995. Wire management was a key

consideration in this design. Wal-Mart's stated objectives to Se-Kure were to permit freedom to reposition the cameras yet to have the least amount of wire on the tether exposed.

14.   To address the wire management problem in the display in Attachment 3, Se-Kure used an electronic system of the type shown on page 5 of Attachment 2. To minimize wire exposure, each tether wire was directed downwardly through an opening in a shelf to a part of the alarm system that was situated at the base of the display, as shown in Fig. 2 on page 2 of Attachment 3. With this arrangement, with the cameras in the display position on a shelf, potentially no wire would be visible as it would reside beneath, and be shielded by, the shelves.

15.   A prospective customer would use the display described in ¶14 as follows. The camera would be grasped and repositioned, which would draw out a length of the conductive wire through the shelf. At the completion of the inspection process, the wire would be fed back down through the shelf opening into the space therebelow. To avoid a situation where a prospective customer would have to either manually feed the wire back into the shelf opening or lay it on the exposed surface of the shelf, a lead weight was provided in conjunction with the security systems, as shown in Fig. 2 on page 2, and in Fig. 4 on page 3 of Attachment 3. The weight accounted for a constant downward pressure on the wire portion leading to the camera. Accordingly, by lowering the camera towards its display position on a shelf, the weight was intended to draw the cable through the shelf opening to the space therebelow.

16.   While the system described in ¶15 was functional, it had a number of drawbacks. The use of the weights was an inconvenience that Wal-Mart did not want to deal with. In setting up this system, the weight had to be attached as described in ¶15 and
on page 3 of Attachment 3. Relatively long wires were required to extend from the items being monitored. These long wires were present in large numbers in some displays. While these systems did function well from a security standpoint, Wal-Mart complained of the difficulty of setting

4

this type of system up and complained of dangling and entangling of wires beneath the shelves. Once the wires entangled, passage of the wire through the shelves was impaired, as a result of which the wire would be laid in an exposed state on top of a shelf. Considerable time and money was thereafter spent by Se-Kure to address these problems and come up with a solution to this considerable wire management problem. Se-Kure's ongoing research and development lead to the system shown in Attachment 4.

17.   The system in Attachment 4 utilized both a mechanical and an electrical tether. The mechanical portion of the system is shown, for example, as the part SK-4507 on page 1 of Attachment 4. This part includes a mechanical cable with a connector on its end. The cable is retractable into a housing through the use of a recoil spring. The mechanical cable extended through a shelf on which an object was displayed. The connector was attached to the object. The housing for the retractable mechanical cable resided beneath the shelf. The connector at the end of the cable captively supported an electronic sensor against the displayed object (See Fig. 1 of Attachment 4). A conductive wire extended from the sensor to an alarm generating system. A cable wrap (part SK-99-623 on page 1 of Attachment 4) was placed around the mechanical and electrical cables so that with the article repositioned to withdraw and expose the mechanical and electrical cables, the exposed portion thereof was covered by the cable wrap. The displayed object was repositionable to withdraw the wrapped mechanical cable and wire from an opening through the shelf. As this occurred, the mechanical cable became "loaded". By moving the object back towards a display position on a shelf, the retracting mechanical cable drew the electrical wires wrapped therewith through the shelf so as to remove all wires from sight.

18.   The system of Attachment 4 was designed in response to complaints about the system of Attachment 3 (see ¶16, above), and while it accounted for a more reliable movement of wires through the shelves as the products were replaced thereon, this system introduced other

5

problems. One problem with the system of Attachment 4 was that multiple cables (mechanical and electrical), rather than a single cable, were required. Thus additional cable must be "managed". The electrical and mechanical cables are required to be united by the use of the cable wrap which adds further to the complication of the system setup. Additionally, the combined wires within the cable wrap collectively have a relatively large diameter which reduces the flexibility of the combined tether and also makes it more obtrusive and visible.

19.   Se-Kure continued to support both of the systems shown in Attachments 3 and 4, in spite of their inherent limitations, until late 1997. Because of ongoing complaints from customers regarding the complicated nature of their systems, and their sometimes less than desirably effective wire management capabilities, Se-Kure continued its research to develop a solution to the problems associated with each of these systems for in excess of two years.

20.   In 1997, Se-Kure had completed the design of, and made available, the system shown in Attachment 5. This product is the subject of the above-identified application. This product eliminated the above problems associated with the systems in Attachments 3 and 4 that were contended with for in excess of two years because of the failure to develop a viable solution thereto.

21.   More specifically, the device in the above-identified application uses a retractable conductive wire as part of an electronic alarm system. This obviates the need to use a mechanical cable as in the system of Attachment 4. The positive retraction of the wire obviates the need to supplement the retraction as by the use of a weight as with the system of Attachment 3.

22.   Over the time frame of early 1995 through 1997, I worked regularly with representatives at Wal-Mart. I recall receiving comments regarding the two systems shown in Attachments 3 and 4 from the Wal-Mart representatives. While the comments from the Wal-Mart representatives indicated that the products shown in Attachments 3 and 4 worked effectively from

6

a security standpoint, Wal-Mart was desirous of having systems that were easier to set up and which had better, and more reliable, wire management capabilities.

23. Once the system in the above-identified application was shown to Wal-Mart, Wal-Mart adopted this system and used it to replace all of its security systems, of the type shown in Attachments 3 and 4, at all of its facilities nationwide.
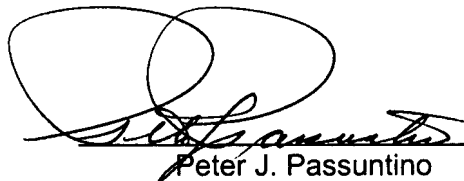
24. I am intimately familiar with the manner in which Se-Kure develops products for its customers. Se-Kure maintains an ongoing communication with these customers with all of its products. Complaints regarding product performance are considered by Se-Kure and solutions to these problems are attempted.

25. I am aware that Se-Kure did receive complaints regarding the performance of the systems of Attachments 3 and 4. I am also aware that Se-Kure, upon receiving the complaints, as part of an ongoing development process, did work to come up with an alternative design that would eliminate the problems with those systems, as discussed above. These problems did persist for in excess of two years without a solution until the system in the above-identified application was devised.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.
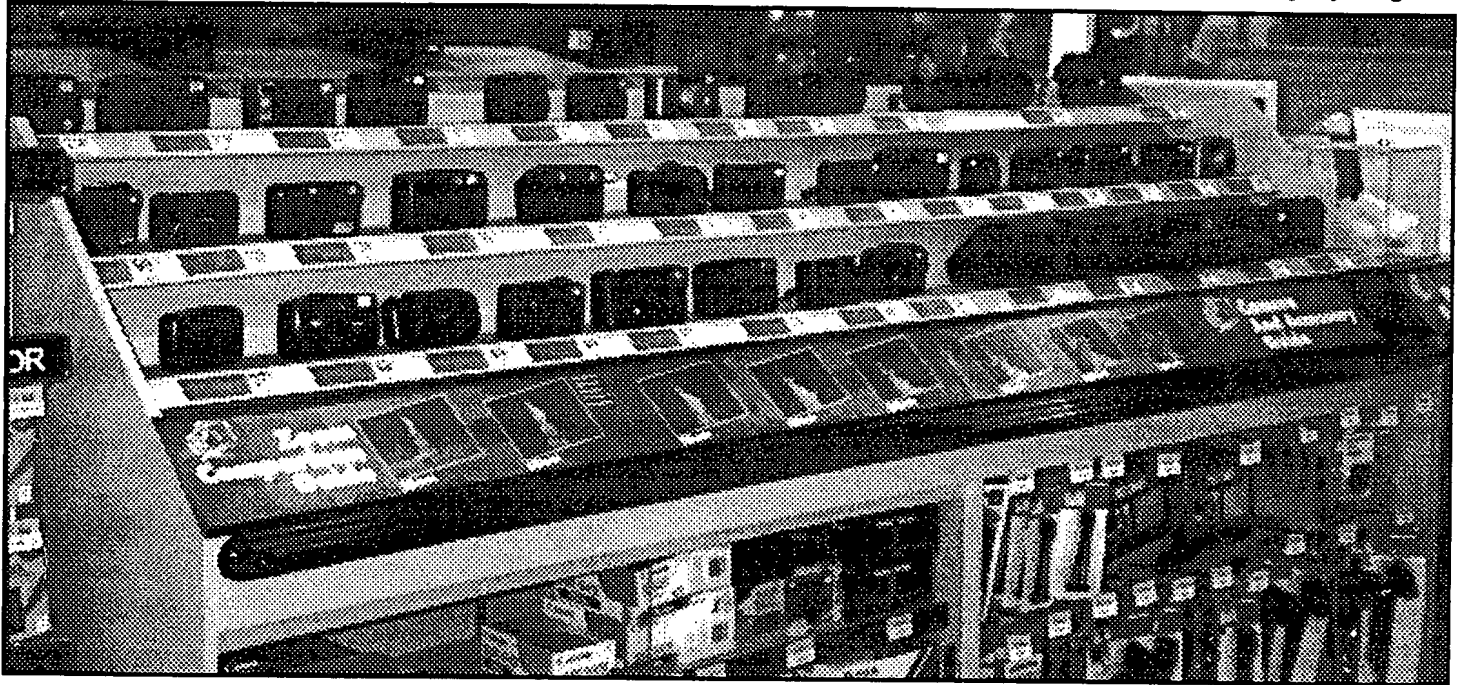
Date: 11/17/00

Peter J. Passuntino

7

Installation Instructions for the
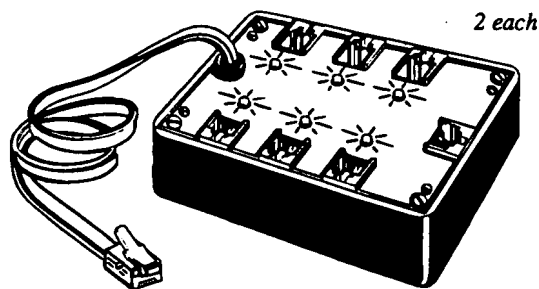# 35mm Camera Display
(((Alarm System)))

WAL★MART

Wal-Mart Retrofit Kit #WM-3395

Se-Kure Controls "LE" Alarm System Installation Instructions for the Camera Display Page 1.
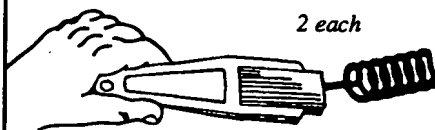

SK-107LE

2 each

"LE" Splitter Box w/6 Modular Plugs

Special Note: Retain the following items from the Original Fixture Kit:

Qty.	Item No.	Description
(6)	SK-107LE	Splitter Boxes
(1)	SK-103LE	Alarm Box
(1)	SK-195	AC/DC Power Supply
(All)	SK-109	Tel. Modular Shunt Plugs

(See page 2 for Product Illustrations)

SK-1912

2 each

Rectangular Removal Tool

SK-905

80 Adhesive   40 Alcohol

Rectangular Adhesive Pads
& Alcohol Prep Pads

SK-127

40 each

40 each

Lead Wts. w/Straps

SK-904XX/LE *(For use with Point & Shoot Cameras)*

Special (Coil-Straight-Coil) Push-N-Go Rectangular Sensor   *40 each*

SK-961XX/LE *(For use with SLR Lenses)*

3 each

Special (Coil-Straight-Coil) Ant Sensor w/Straps

SK-985XX/LE *(For use with SLR Cameras with Lenses Attached)*
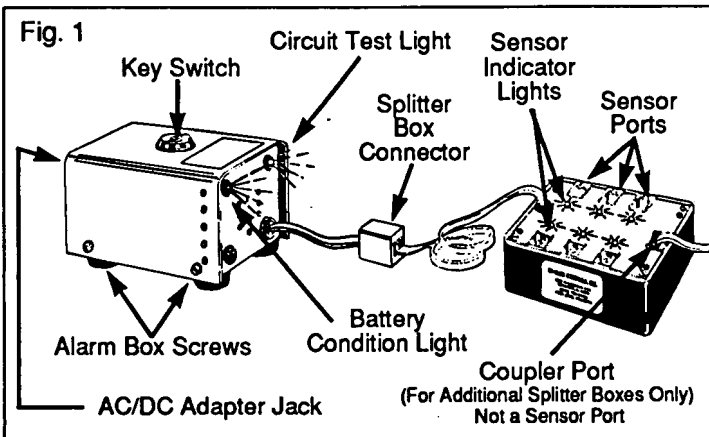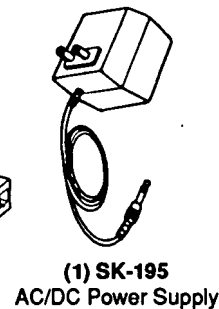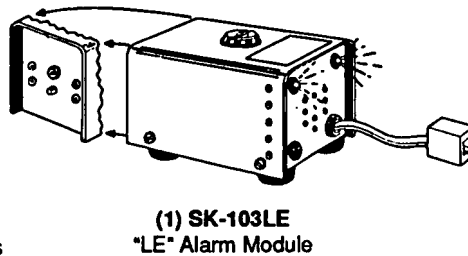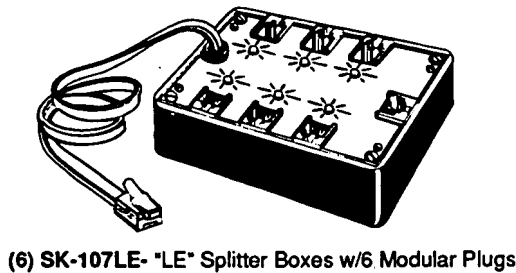
3 each

Special (Coil-Straight-Coil) Dual Sensor (Ant & Rectangular) w/Straps

Note: Read All Instructions *BEFORE* Beginning Installation!

Special Note: Retain the following items from the Original Fixture Kit:

(6) SK-107LE- "LE" Splitter Boxes w/6 Modular Plugs

(1) SK-103LE
"LE" Alarm Module

(1) SK-195
AC/DC Power Supply

(All Available)
SK-109
Telephone Modular
"Shunt Plugs"

Fig. 1

Key Switch
Circuit Test Light
Sensor Indicator Lights
Splitter Box Connector
Sensor Ports
Alarm Box Screws
Battery Condition Light
AC/DC Adapter Jack
Coupler Port
(For Additional Splitter Boxes Only)
Not a Sensor Port

Battery Installation

1. Locate the Se-Kure "LE" Alarm Box (SK-103LE), insert the key and turn it to the "OFF" position.
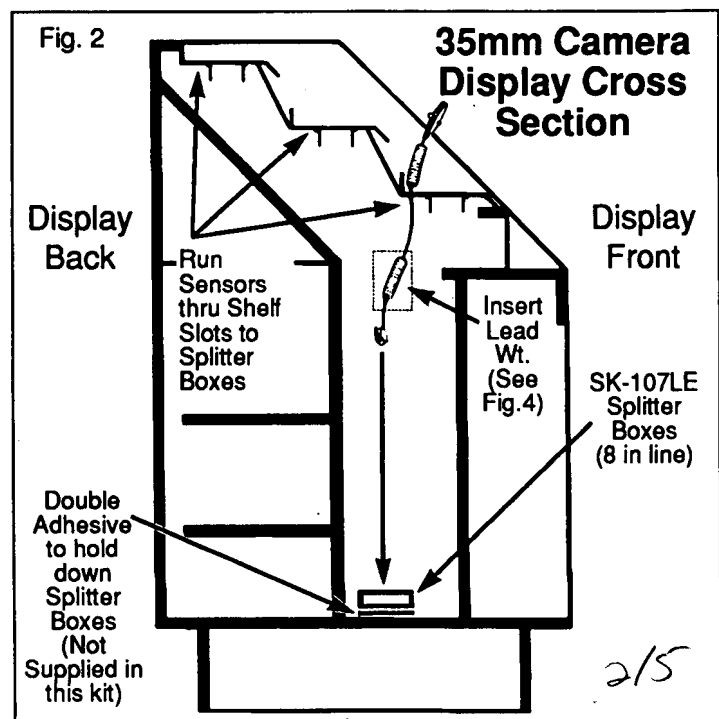
NOTE: When the Alarm Module is in the "OFF" position the key cannot be removed.

2. With a standard blade screw driver, remove the (4) four screws around the base of the "LE" Alarm Box. Make sure the key is in the "OFF" position and lift off the cover. (See Fig. 1 above).

NOTE: The cover can only be removed with the key in and turned to the "OFF" position.

3. Install (2) two new 9-volt alkaline (Duracell®) batteries, (not included in this kit). Always check the batteries for freshness (i.e. their expiration date) before installation. Connect each battery to its battery strap and insert onto the battery holders. Tuck-in the battery strap wires so they clear the area that the key lock will swing.

4. **VERY IMPORTANT!** Re-Install the cover and replace the (4) four screws around the base of the Alarm Box.

Alarm Installation

NOTE: Do not install the display to the wall until the alarm has been installed.

5. From the front side of the display, position the "LE" Alarm Box (SK-103LE), in the stock area all the way to the back, on the side of the display closest to an available 110-volt AC outlet.

NOTE: It is important to place the Alarm Module in the front side of the display. Store personnel will need to gain immediate access to the unit when or if an alarm occurs.

6. Plug the AC/DC Power Supply (SK-195) into the available 110-volt AC outlet and run the cord from the power supply to the "LE" Alarm Box through the access hole in the side of the display. You may need to loop the cord up over the back shelf to the display stock area. (See Fig. 2).

Fig. 2

35mm Camera Display Cross Section

Display Back

Display Front

Run Sensors thru Shelf Slots to Splitter Boxes

Insert Lead Wt. (See Fig.4)

SK-107LE Splitter Boxes (8 in line)

Double Adhesive to hold down Splitter Boxes (Not Supplied in this kit)

2/5

7. Plug the connector of the AC/DC Power Supply into the jack on the back of the Alarm Module.

NOTE: The alarms' "OFF" position is really a "Stand-By" Mode. After the unit has been turned to the "OFF" position for :90 seconds, the alarm will "chirp" every :15 seconds.

From the Back of the Display:
8. In the back of the display starting at the end nearest to the "LE" Alarm Box, place the first "LE" Splitter Box on the bottom shelf , as shown in Fig. 3.

Fig. 3   Splitter Boxes "Chain" Together Using "Coupler Ports"
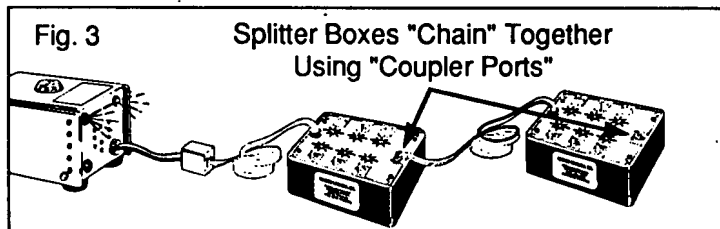
9. Loop the telephone modular cord from the splitter box up over the back shelf and plug it into the "Splitter Box Connector" from the Alarm Box.

10. Remove the "Shunt Plug" from the "Coupler Port" on the splitter box.

11. Connect the 2nd Splitter Box into the "Coupler Port" of the 1st Splitter Box. Repeat this until all (6) six Splitter Boxes have been connected.

From the Front of the Display:—
(Set display camera's to modular to determine sensor placement).
12. From all 35mm camera locations, insert the telephone modular plug end of an (SK-904XX/LE) Rectangular Sensor through the slot at the back of the shelves. Thread the cables through the slot until you reach the straight portion of the wire leaving the last (coiled) section and sensor exposed, (shown in Fig. 2).

13. Repeat the process using a (SK-961XX/LE) Ant Sensor for locations of SLR Lenses, and (SK-985XX/LE) Dual Sensors for locations where cameras have removable lenses.

From the Back of the Display:
14. Remove a "Shunt Plug" from a Sensor Port on a Splitter Box. Insert the loop of the shunt plug over the

end of a Sensor Cable that hangs directly over that port. Insert the Sensors' Modular Plug into that port. Repeat this procedure with each camera and lens sensor. All ports should have either a "Shunt Plug" or a "Sensor" plugged into it.

Fig. 4

15. Hook a lead weight onto each sensor cable so it rests inside the bottom (Coil) of each cable, (as shown in Fig. 4). Use the short tie/wrap to fasten the weight and cut off the excess.
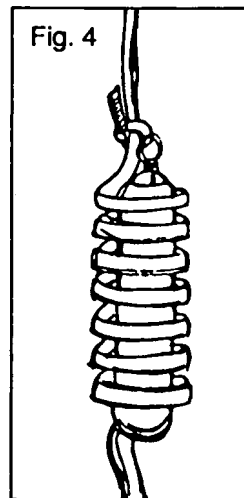
Pre-Test the System:
At this time, with the key in the "OFF" position, the Circuit Test Light on the Alarm Module will be lit. All Splitter Box Ports with a "Shunt Plug" will have its light "OUT." And all Ports with a Sensor plugged into it will also be "LIT." There should be no open ports, but if there where, they would also be lit. Put a "Shunt Plug" in any open port.

All "LE" sensors have L.E.D. Lights that change in color. If you push in the Sensor plunger on the bottom of a sensor, you will notice that the L.E.D. Light on the sensor changes from **GREEN** to **RED**. If you look around to the rear of the display, you will also notice that when you push the plunger down, the light on the sensor changes from GREEN to RED and the light on the Splitter Box Sensor Port goes "OUT." When this happens, everything is working properly.

Installing Display Product & Camera Sensors:
16. Arrange all the cameras and lenses on the display in they're proper position on the display.

17. Choose a small flat area on the back right hand side of each camera where the Sensor is to be applied.

VERY IMPORTANT!
NOTE: Clean the area on the camera and the sensor with an Alcohol Prep Pad. Dry these surfaces with a clean paper towel. If the paper towel shows dirt, repeat the cleaning step until the surfaces are absolutely Clean & Dry.

3/5
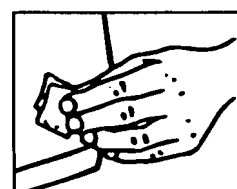
18. Remove a (1" x 2") rectangular adhesive pad from the backing sheet. Making sure that the center hole has been removed from the adhesive, apply it to the clean surface on the bottom of the rectangular sensor. Press down firmly.

SK-905
Rectangular Adhesive Pad
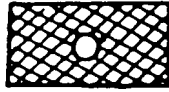
NOTE: Surfaces must be absolutely clean and dry or sensors will not adhere properly.

19. Remove the 2nd backing sheet from the adhesive pad and position the rectangular sensor over the flat area on the camera you just cleaned. Press the sensor firmly into place to insure a proper bond. The light on that sensor will have changed to **RED** when the sensor if applied correctly. (See Figs. 5 and 6).
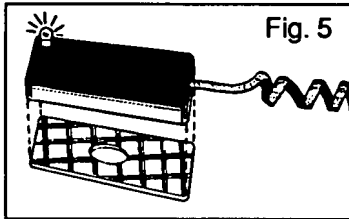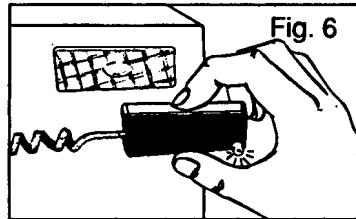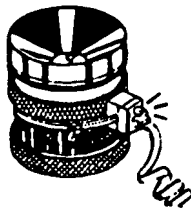
Fig. 5

Fig. 6

NOTE: Use only genuine (SK-905) Adhesive Pads provided by Se-Kure Controls— other pads will cause sensors to detach from product.
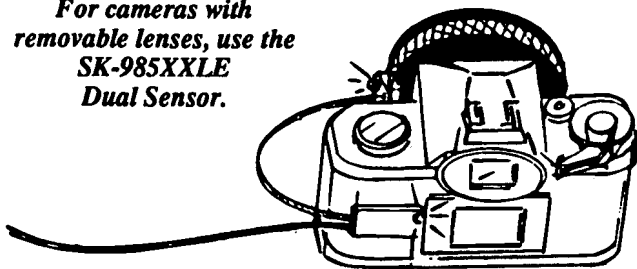
Installing Camera Lens Sensors:
20. Insert the tie/wrap into the (SK-961XX/LE Ant Sensor as shown in Fig. 7, and wrap around lens. Pull the tie/wrap tight, and cut off any excess with wire cutters.

Fig. 7

For cameras with removable lenses, use the SK-985XXLE Dual Sensor.

21. Review all camera and lens sensors; they should be firmly attached and all sensor lights should be **RED.**

22. With all Sensors plugged into Splitter Boxes, and Shunt Plugs in all unused Splitter Box Ports, the Circuit Test Light on the front of the Alarm Box should be "**OUT.**" And, when you turn the Alarm Box key to the "**ON**" position, the alarm should remain "Silent."

Final Testing of the Alarm System:
(With the Key still in the "ON" Position)
23. Remove (1) one plug from a Splitter Box Sensor Port and the alarm should sound; that sensors **GREEN** Port Indicator Light will go "ON"; and at the same time, the Circuit Test Light on the Alarm Box will go "ON." This indicates an "OPEN" Circuit.

24. Turn the Key to the "OFF" or "Stand-By" position; Re-Install the plug in the Sensor Port; and turn the Key back to the "ON" position and Remove.
The Alarm is Now Operating!
 The Display is now ready to hang.

SK-1912— Rectangular Sensor Removal Tool

To remove from product, slide wrench over end and twist.
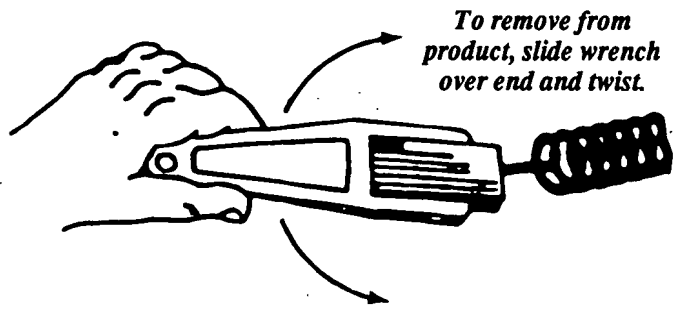
Product & Sensor Removal:
25. Insert and turn the Key to the "OFF" position.

26. Use the (SK-1912) Removal Tool for Rectangular Sensors; insert and turn. Remove sensor and old adhesive pad.

VERY IMPORTANT!
NOTE: Clean the area on the camera and the sensor with an Alcohol Prep Pad. Dry these surfaces with a clean paper towel. If the paper towel shows dirt, repeat the cleaning step until the surfaces are absolutely Clean & Dry.
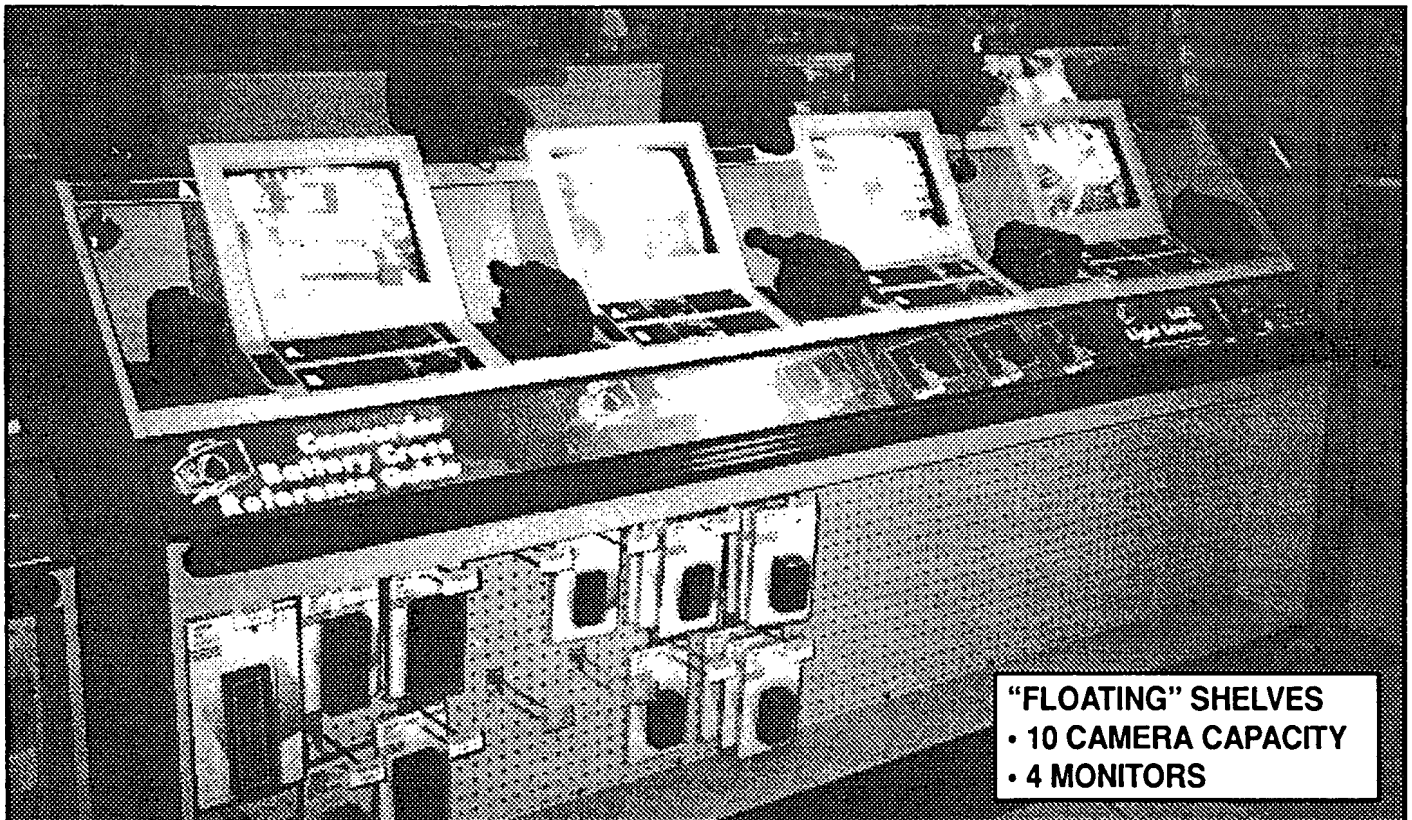
4/5

27. Clean the surface areas with Alcohol Prep Pads and install a new (SK-905) Adhesive Pad to Sensor and camera.

—or—

28. If you are not replacing the sensor onto a new camera, unplug it from the Splitter Box and replace the "Shunt Plug."

Helpful Hints:

• The unique "LE" Light indicates the condition of the sensor. When not plugged-in, the LED Light is a dull **WHITE**. When plugged-in and unattached to a product, the LED Light is **GREEN**. When it is attached to a product and the connection is closed, the LED Light changes to **RED**.

• If the AC service to the power supply is turned off, or interrupted, all the lights on sensors and splitter boxes will go out. But, the Battery Back-Up will continue to provide alarm protection.

• **Check Battery Condition Weekly:** Check the Battery Condition Light on the Alarm Module Weekly. This is the Amber Light on the left; it should blink every :5 to :10 seconds indicating good battery strength. Replace weak or dead batteries with 9-volt Alkaline type.

• After installation is complete, place installation instructions by alarm box for future reference.

• If you have any questions, or need to order additional sensors, adhesive pads or splitter boxes, please call:
     Se-Kure Controls,® Inc.
     1-800-322-2435 or Fax to: (708) 288-9999

Notes:

Keep these instructions at the Alarm Module location for future reference!

Se-Kure Controls® Inc.

3714 Runge Street • Franklin Pk., IL 60131-1112 • 1-800-322-2435 • Fax (708) 288-9999
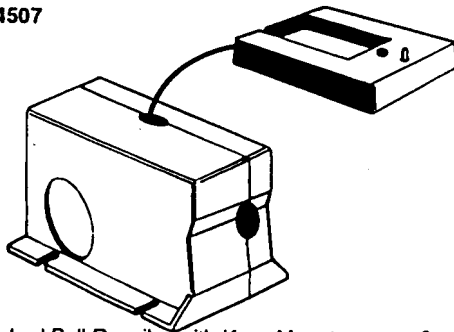
S/S

Installation Instructions for the
Camera Display Alarm System

Se-Kure Controls "LE" Alarm System Installation Instructions for the Camera Display Page 1.

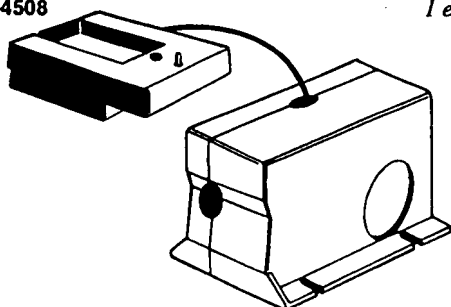**"FLOATING" SHELVES**
- **10 CAMERA CAPACITY**
- **4 MONITORS**

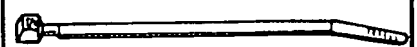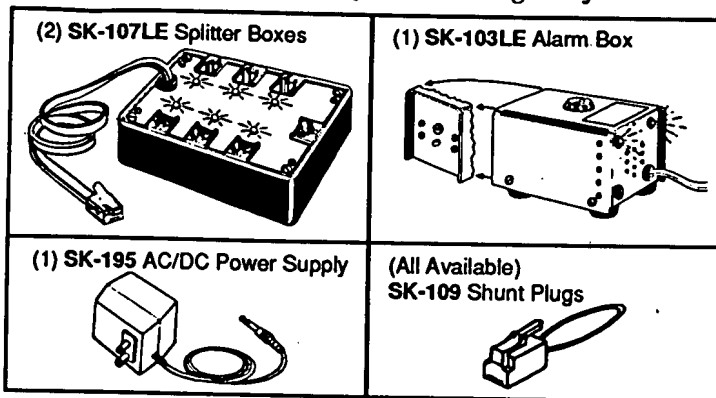|	
SK-4507 Standard Pull Recoiler with Kozy Mount *9 each*	**SK-905** *20 Adhesive* *20 Alcohol* Rectangular Adhesive & Alcohol Pads
	SKP-200K *1 each* Special Security Screw Allen Wrench
SK-4508 *1 each* Standard Pull Recoiler with Special RCA Kozy Mount	**SK-947** *1 each* 24" "LE" Extension Cord w/ Coupler
	SK-99-455 Tie Wraps *10 each*
	SK-99-623 Special Spiral Cable Wrap (For Containing & Concealing Cables) *10 each*
	SK-904P/LE 8' (Straight Wire) Rectangular Push-N-Go Sensor w/LED Light *10 each*
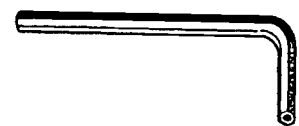
Note: Read All Instructions _BEFORE_ Beginning Installation!

1/4

Special Note:
Retain the following items from the original fixture kit:

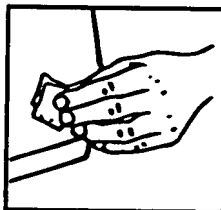| (2) SK-107LE Splitter Boxes	(1) SK-103LE Alarm Box
(1) SK-195 AC/DC Power Supply	(All Available) SK-109 Shunt Plugs

Product & Alarm Installation

Place camcorders in position as outlines in Wal★Mart Planogram.

Begin installation process by attaching camcorders to Kozy Mounts and arranging in their assigned display location:

Installing The Camcorder & Applying the Sensor

Clean the bottom of the camcorder around the tripod mount and the SK-904P/LE Rectangular Sensor with an Alcohol Prep Pad. Dry this area with a clean paper towel. (If paper towel shows dirt, repeat the cleaning step until the area is clean and dry. **NOTE: DO NOT INSTALL A SENSOR WITHOUT ADHESIVES! Adhesives must be used for proper sensor connection!**

NOTE: RCA Camcorders require a special Kozy Mount. See diagram on page 1.

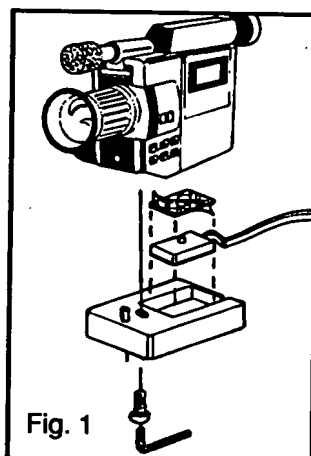Remove the backing sheet from the adhesive pad and place it on the sensor.

Fig. 1

Remove the second backing sheet from the adhesive pad on the sensor as shown in Fig. 1. Place the sensor into the Kozy Mount, twisting the wire around and through the slot, as indicated in the diagram. This will "lock" the sensor into the Kozy Mount. Place the Camcorder into the Kozy Mount so that the mounting pin aligns with the camcorder mount. (This will properly position the sensor onto the bottom of the camcorder).

Thread the security screw through the Kozy Mount and into the camcorder. Tighten with the (SKP-200K) Security Allen Wrench to complete the connection.

NOTE: MAKE SURE THAT THE (SKP-200K) SECURITY ALLEN WRENCH IS KEPT IN A SAFE PLACE. THIS TOOL IS IMPORTANT FOR FUTURE DISPLAY MODIFICATIONS.

Connect camcorder power supply to camcorder by threading it through the display hole where the sensor wire, video connection and recoiler cables are already housed. Make sure that the video connection is secure as well. Gather the sensor wire, recoiler wire, power cord, and video lead together, and attach them to the Kozy Mount by securing tightly with an (SK-99-455) Tie Wrap. Clip excess tie wrap.
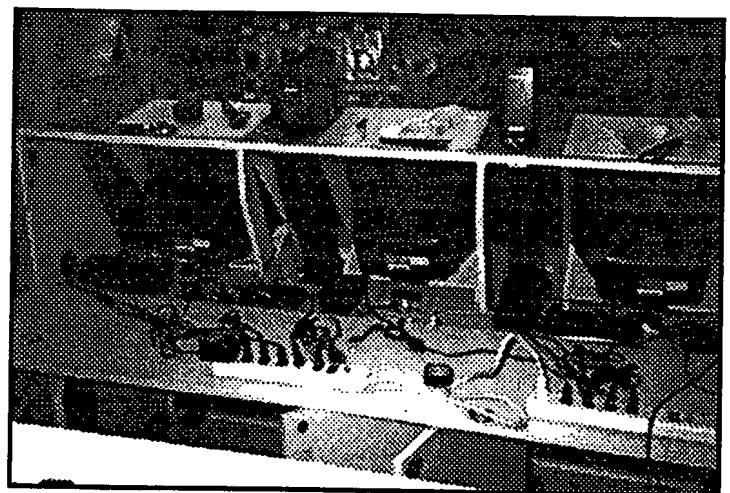
Fig. 2

Now you are ready to install the **"LE PLUS"™ Alarm System.** (See Fig. 2).

2/4

Alarm Installation

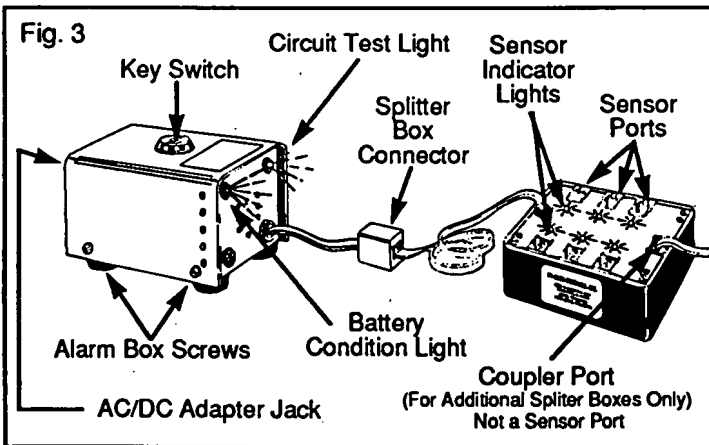**NOTE: DO NOT DISPLAY MERCHANDISE UNTIL ALARM INSTALLATION IS COMPLETE!**

Pull down hinged door at rear of camcorder display to begin alarm installation.

If not already done, attached electrical power strips to hinged shelf so that door can close.and a sufficient number of outlets is available for each camcorder and monitor, with one remaining outlet for the (SK-195) AC/DC Power Supply.

Battery Installation/Recheck

Locate the Se-kure "LE" Alarm Box (SK-103LE), insert the key and turn to the "OFF" position.

NOTE: When the alarm module is in the "OFF" position, the key cannot be removed.

Fig. 3
Key Switch
Circuit Test Light
Sensor Indicator Lights
Splitter Box Connector
Sensor Ports
Alarm Box Screws
Battery Condition Light
AC/DC Adapter Jack
Coupler Port
(For Additional Spliter Boxes Only)
Not a Sensor Port

With a standard blade screw driver, remove the (4) four screws around the base of the "LE" Alarm Box. Make sure the key is in the "OFF" position and lift off the cover. (See Fig. 3 above).

NOTE: The cover can only be removed with the key in and turned to the "OFF" position.

Install (2) two new 9-volt alkaline (Duracell) batteries, (not included in this kit). Always check the batteries for freshness (i.e. the expiration date), before installation. Connect each battery to its battery strap and insert onto the battery holders.
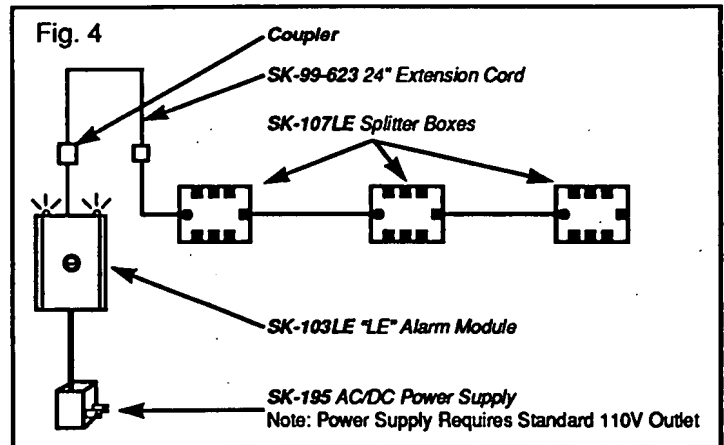
Tuck in the battery strap wires so they clear the area that the key lock will swing.

VERY IMPORTANT! Re-Install the cover and replace the (4) four screws around the base of the alarm box. NOTE: Cover must be installed with key in the "OFF" position.

Position the "LE" Alarm Box (SK-103LE), behind the monitors on the side of the display closest to an available 110-volt AC outlet.

NOTE: The alarms "OFF" position is really a "Stand-By" mode. After the unit has been turned to the "OFF" position for :90 seconds, the alarm will "chirp" every :15 seconds.

In the back of the display starting about a third of the way from the "LE" Alarm Box, place the first "LE" Splitter Box on the shelf behind the monitor, as shown in Fig. 4.

Fig. 4
Coupler
SK-99-623 24" Extension Cord
SK-107LE Splitter Boxes
SK-103LE "LE" Alarm Module
SK-195 AC/DC Power Supply
Note: Power Supply Requires Standard 110V Outlet

Take the telephone modular cord from the Splitter Box and plug it into the "Coupler" from the Alarm Box.

Remove the 'Shunt Plug' from the "Coupler Port" on the Splitter Box.

Insert the male end of the 24" (SK-947LE) Extender into the Splitter Box. This allows proper spacing to the next Splitter Box. Connect the 2nd Splitter Box into the 'Coupler Port" of the (SK-947LE) Extender. Position this second Splitter Box about two thirds of the way from the Alarm Box to the end of the display.

Remove a "Shunt Plug" from a "Sensor Port" on a Splitter Box. Insert the Sensor's modular plug into that port. Repeat this procedure with each camcorder. **ALL PORTS SHOULD HAVE EITHER A SHUNT PLUG OR A SENSOR IN THEM! If power is turned on with an empty port, an alarm will sound.**

Pre-Test the System:

At this time, with the key in the "OFF" position, the Circuit Test Light on the Alarm Module will be lit. All Splitter Box Ports with a Shunt Plug will have its light OUT. And all ports with a sensor plugged in to them will also be LIT. there should be no open ports, but if there where, they would also be lit. Put a Shunt Plug in any open port.

With the sensor plugged into Splitter Boxes, and Shunt Plugs in all unused Splitter Box Ports, the Circuit Test Light on the front of the Alarm Box should be OUT. And, when you turn the Alarm Box key to the ON position, the alarm should remain Silent.

Final Testing of the Alarm System:
(with the key still in the ON position)

Remove (1) one Shunt Plug from a Splitter Box Sensor Port and the alarm should sound; that sensor port's GREEN indicator light will go ON; and at the same time, the Circuit Test Light on the alarm box will go ON. This indicates an OPEN CIRCUIT.

Turn the key to the OFF or Stand-By position; Re-Install the Shunt Plug(s) in the Sensor Port(s); and turn the key back to the "ON" position and Remove. The Alarm is now Operating!

Wrapping the Wire Assembly:
(Requires 2 People)

The final step in assembling the camcorder security display is to make sure that all connections are secure. Are the camcorders functioning properly? Are the monitors working? Is the Alarm System up and running? **If the answer to any of these questions is "NO", go back and correct the problem before proceeding further.**

While one person pulls the camcorder up from the display, (approx. 3½ feet), another person should wrap the (SK-99-623) Spiral Cable Wrap around the loose wires. Repeat this process until each camcorder assembly is complete. The display is now ready!

Cables Tie-Wrap To Back of Kozy Mount

Kozy Mount

SK-99-623 Spiral Cable Wrap

Recoiler Cable Sensor Cable & Video Cable

Fig. 5

Helpful Hints:
If the AC service to the (SK-195) AC/DC Power Supply is turned off, or interrupted, all the lights on sensors will go out. But, the battery Back-Up will continue to provide alarm protection.

Check Battery Condition Weekly: Check the battery condition light on the Alarm Module Weekly. This is the Amber Light on the left; it should blink every :05 to :10 seconds indicating good battery strength. Replace weak or dead batteries with 9-volt Alkaline type.
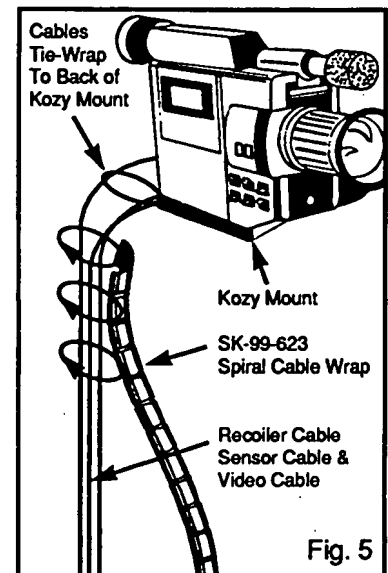
After installation is complete, place installation instructions by Alarm Box for future reference. If you have any questions, please call: 1-800-322-2435

4/4